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(FILE 'HOME' ENTERED AT 15:45:38 ON 25 SEP 2007)

FILE 'HCAPLUS' ENTERED AT 15:45:44 ON 25 SEP 2007 E EP1256351/PN 25

L1 1 S E3

FILE 'STNGUIDE' ENTERED AT 15:46:11 ON 25 SEP 2007

FILE 'HCAPLUS' ENTERED AT 15:46:48 ON 25 SEP 2007 E US20030180901/PN 25

L2 1 S E3

FILE 'STNGUIDE' ENTERED AT 15:47:21 ON 25 SEP 2007

FILE 'HCAPLUS' ENTERED AT 15:52:58 ON 25 SEP 2007

E EP1256351/PN 25

L3 1 S E3

E MATSUNAGA K/AU 25

L4 446 S (E3 OR E63)

E EBINA TAKUSABURO/AU 25

L5 102 S (E3)

L8

L6 547 S L4 OR L5

L7 27 S L6 AND TRICHOLOMA

26 S L7 NOT (L2 OR L3)

L9 9 S L6 AND FERM

L10 7 S L8 AND L9

L11 28 S L8 OR L9

L11 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2007:1044757 HCAPLUS

TITLE:

AUTHOR (S):

Development of an Enzyme-Linked Immunosorbent Assay To

Detect an Immunomodulatory $\alpha\text{-D-Glucan-Protein}$ Complex, MPG-1, in Basidiomycete Tricholoma

matsutake and Related Processed Foods Hoshi, Hirotaka; Yaqi, Yoko; Matsunaga,

Kenichi; Ishihara, Yoko; Yasuhara, Tadashi

CORPORATE SOURCE: Biomedical Research Laboratories, Kureha Corporation,

3-26-2 Hyakunin-cho, Shinjyuku-ku, Tokyo, 169-8503,

Japan

SOURCE: Journal of Agricultural and Food Chemistry ACS ASAP

CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

We previously isolated a novel immunomodulatory α -(1,4)(1,6)(1,2)-D-

glucan-protein complex (MPG-1) from mycelia of Tricholoma

matsutake in basidiomycetes. In the present study, we raised a polyclonal antibody by immunizing rabbits with MPG-1 and constructed a sandwich ELISA (ELISA) system to examine the distribution of MPG-1 among edible mushrooms and related processed foods. The system detected MPG-1 quant. at concns. of more than 10 ng/mL, with a coefficient of variation of less than 10% by intra-assay and interassay precision. Anal. with the system of chemical modified MPG-1 suggested that the sugar moiety was mainly involved in the detection. The system detected MPG-1 in the exts. of the fruiting bodies of T. Matsutake but not in those of 34 other basidiomycete species. Moreover, a significant amount of MPG-1 was detected in the exts. of their cultured mycelia. The antigenic structure of MPG-1 was relatively stable in terms of pH and temperature MPG-1 was detected in processed foods supplemented with T. matsutake. These results suggest that MPG-1 is distributed predominantly in T. Matsutake species and that the ELISA system can detect it in processed foods supplemented with T. matsutake.

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2007:759422 HCAPLUS

TITLE:

The rheumatoid-arthritis prevention and therapy agent and foods and beverages containing the object for rheumatoid-arthritis prophylaxis or the compositions for the therapy, and those compositions [machine

translation]

INVENTOR(S):

Matsunaga, Kenichi Kureha Corp., Japan

PATENT ASSIGNEE(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 16pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 2007176823	A	20070712	JP 2005-374968	20051227		
PRIORITY APPLN. INFO.:			JP 2005-374968	20051227		
AB [Machine Translation	n of De	escriptorel	Provide the novel obje	act for		

[Machine Translation of Descriptors]. Provide the novel object for rheumatoid-arthritis prophylaxis, or the composition for the therapy. The composition for rheumatoid-arthritis prevention and therapies which contains the component derived from basidiomycete Tricholoma Tricholoma matsutake (scientific name "Tricholoma matsutake") at least is provided. This composition has the arthritis onset inhibitory action, the anti-collagen antibody-production inhibitory

action, the IL-6 production inhibitory action, the blood serum C-reactive protein (CRP) elevation inhibitory action, the blood serum lactate dehydrogenase /LDH (LDH) elevation inhibitory action, and the blood serum rheumatoid factor (RF) elevation inhibitory action.

L11 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:727547 HCAPLUS

TITLE: The composition, the foods and beverages, drugs, and

their use containing the extraction component derived

from two or more mushrooms [machine translation]

Matsunaga, Kenichi INVENTOR(S):

Kureha Corp., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 18pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.

JP 2007169227 A 20071 DATE ------A 20070705 JP 2005-370986 20051222 JP 2005-370986 PRIORITY APPLN. INFO.: 20051222 [Machine Translation of Descriptors]. Provide the composition which contained the extraction component derived from two or more mushrooms as a useful composition in promotion of the immune function in the living body. As the component extracted from the thing of the Tricholoma -matsutake mycelium origin which is the mushrooms, and a component which are the mushrooms and was extracted from the thing of the basidiomycetes origin, (1) Provide the component extracted from the thing of the Agaricus blazei origin, the component extracted from the thing of (2) maitake (Grifola frondosa) origin, the composition containing these (1) and/or (2), etc.

L11 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:726451 HCAPLUS

DOCUMENT NUMBER: 147:141423

TITLE: Anti-MPG-1 antibody and immunoassay kit for

quantitating Tricholoma matsutake-derived α-glucan-protein complexes in beverage or food

and in pharmaceuticals

INVENTOR(S): Matsunaga, Kenichi; Hoshi, Hirotaka

PATENT ASSIGNEE(S): Kureha Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 25pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. PATENT NO. JP 2007169207 A 20070705 JP 2005-367899 20051221 PRIORITY APPLN. INFO.: JP 2005-367899

Provided are antibodies specific to α -glucan-protein complexes or MPG-1 and immunoassay kit for quantitating the Tricholoma matsutake component in foods or beverages, and in drugs or medical and pharmaceutical products. The immunoassay is e.g. an ELISA comprising solid phase-immobilized antibody, enzyme-labeled antibody and chromogenic substrate for the enzyme.

L11 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1090407 HCAPLUS

DOCUMENT NUMBER: 145:389378

Tricholoma matsutake and its exts. as IgE TITLE:

inhibitors and health foods for prevention and

treatment of allergic diseases

Matsunaga, Kenichi INVENTOR(S):

Kureha Chemical Industry Co., Ltd., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 14pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE

JP 2006282635 A 20061019 JP 2005-107790 20050404

JP 2005-107790 20050404 PRIORITY APPLN. INFO.:

Tricholoma matsutake and its exts. are claimed as IgE inhibitors and health foods for prevention and treatment of allergic diseases.

L11 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1090404 HCAPLUS

DOCUMENT NUMBER: 145:389377

Tricholoma matsutake and its exts. for TITLE:

prevention and treatment of systemic inflammatory

response syndrome

INVENTOR(S): Matsunaga, Kenichi

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2006282634 A 20061019 JP 2006 105500 JP 2006282634 A 20061019 JP 2005-107789 20050404 PRIORITY APPLN. INFO.: JP 2005-107789 20050404

Tricholoma matsutake and its exts. are claimed as drugs and

health foods for prevention and treatment of systemic inflammatory

response syndrome, especially septicemia.

L11 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:910700 HCAPLUS

DOCUMENT NUMBER: 145:263282

TITLE: Cancer-preventive agents and food containing matsutake

(extracts) or lactoferrin

Kobayashi, Hiroshi; Iijima, Hiroko; Matsunaga, INVENTOR(S):

Kenichi

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2006232719 A 20060907 JP 2005-48879 20050224 JP 2006232719 A 20060907 JP 2005-48879 20050224 PRIORITY APPLN. INFO.: JP 2005-48879 20050224

AB The agents and food for newborns, contain matsutake (Tricholoma

matsutake), its exts., or lactoferrin. Newborn rats were administered with a fraction (obtained from water extract of matsutake FERM BP-7304) at 100 mg/kg p.o., then injected with azoxymethane at 15 mg/kg once a wk for 3 times from 8 wk after birth, and sacrificed 5 wk after the last injection. The number of aberrant crypt foci (ACF) formed in the rats was 109, while that in controls administered with a physiol. saline solution instead of the matsutake extract fraction was 196.

L11 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1133111 HCAPLUS

DOCUMENT NUMBER: 144:50265

TITLE: Isolation and Characterization of a Novel

Immunomodulatory α-Glucan-Protein Complex from

the Mycelium of Tricholoma matsutake in

Basidiomycetes

AUTHOR(S): Hoshi, Hirotaka; Yagi, Yoko; Iijima, Hiroko;

Matsunaga, Kenichi; Ishihara, Yoko; Yasuhara,

Tadashi

CORPORATE SOURCE: Biomedical Research Laboratories, Kureha Chemical

Industry Co. Ltd., Tokyo, 169-8503, Japan

SOURCE: Journal of Agricultural and Food Chemistry (2005),

ma (an) come come

53(23), 8948-8956

CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

T. matsutake, a high-class edible mushroom in Japan, has been reported to have excellent biol. activities, but difficulty in cultivating the fruit bodies and limited bulk availability have restricted detailed studies. A method of culturing in tanks, enabling the bulk supply of the mycelia was developed. The preparation (CM6271) exerts modulative effects on the immune competence of mice and rats. In this study, a sodium hydroxide extract of CM6271 was defatted followed by fractionation with a combination of ion exchange chromatog. and gel filtration to identify the components involved in the expression of the activity, and a single peak fraction (MPG-1) was obtained with reversed phase chromatog. MPG-1 was a glycoprotein (sugar:protein ratio, 94.3:5.7) with a relative mol. mass of 360 kDa, and the sugar moiety contained about 90% glucose. NMR spectra and methylation anal. revealed that the α -1,4-linkage was the predominant glucan linkage with α -1,6- and α -1,2-linkages in the minority. The amino acid composition in the protein moiety was rich in glutamine, alanine, asparagine, leucine, glycine, valine, serine, threonine, isoleucine, and proline. MPG-1 was resistant to degradation with amylase or protease. oral administration of MPG-1 promoted, in a dose-dependent manner, the recovery of the mouse natural killer cell activity and serum IL-12 level that had been reduced by the loading of restraint stress. The dose of MPG-1 (25 mg/kg) required for the expression of the effect decreases to 1/12 of that of CM6271 (300 mg/kg). Furthermore, MPG-1 formed a complex with TGF- β 1 in vitro, modulating the biol. activity of TGF- β 1 by binding to its active form. These results indicate that the mycelium of T. matsutake contains a novel α -glucan-protein complex with immunomodulatory activities.

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:823428 HCAPLUS

TITLE: Antidiabetic agent and food

INVENTOR(S):
Matsunaga, Kenichi

PATENT ASSIGNEE(S): Japan

SOURCE: U.S. Pat. Appl. Publ.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. ---------_____ -----US 2005180990 A1 20050818 US 2004-915419 20040811 JP 2005225801 Α 20050825 JP 2004-35825 20040212 JP 2004-35825 A 20040212 PRIORITY APPLN. INFO.:

An antidiabetic agent and food are disclosed, which contain <i>> Tricholoma matsutake, </i>in particular <i>Tricholoma matsutake </i>of the FERM BP-7304 strain, and any of mycelia, broths, or fruit bodies (including spores) thereof, as they are, dried products thereof, or extracts thereof (e.g., a hot water extract or an alkaline solution extract). Methods of treating diabetes by the use of the antidiabetic agent and food are also disclosed.

L11 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2005:814124 HCAPLUS

TITLE:

Hypotensive agent and food

INVENTOR(S):

Matsunaga, Kenichi

PATENT ASSIGNEE(S):

Japan

SOURCE:

U.S. Pat. Appl. Publ.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE		
US 2005180991	A1	20050818	US 2004-915420		20040811		
JP 2005225803	A	20050825	JP 2004-35827		20040212		
PRIORITY APPLN. INFO.:			JP 2004-35827	Α	20040212		

AΒ A hypotensive agent and food are disclosed, which contain <i>> Tricholoma matsutake</i>, in particular <i>Tricholoma matsutake </i>of the FERM BP-7304 strain, and any of mycelia, broths, or fruit bodies (including spores) thereof, as they are, dried products thereof, or extracts thereof (e.g., a hot water extract or an alkaline solution extract). Methods of treating hypertension by the use of the hypotensive agent and food are also disclosed.

L11 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2005:814123 HCAPLUS

TITLE:

Antihyperlipidemic agent and food

INVENTOR(S):

Matsunaga, Kenichi

PATENT ASSIGNEE(S):

Japan

SOURCE:

U.S. Pat. Appl. Publ.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE		
US 2005180989	A1	20050818	US 2004-915402		20040811		
JP 2005225802	Α	20050825	JP 2004-35826		20040212		
PRIORITY APPLN. INFO.:			JP 2004-35826	Α	20040212		

AB An antihyperlipidemic agent and food are disclosed, which contain <i>> Tricholoma matsutake</i>, in particular <i>Tricholoma matsutake </i>of the FERM BP-7304 strain, and any of mycelia,

broths, or fruit bodies (including spores) thereof, as they are, dried

products thereof, or extracts thereof (e.g., a hot water extract or an alkaline solution extract). Methods of treating hyperlipemia by the use of the antihyperlipidemic agent and food are also disclosed.

L11 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:545530 HCAPLUS

DOCUMENT NUMBER: 143:20088

TITLE: Matsutake organic solvent extracts containing linoleic

acid and oleic acid and their salts and prodrugs for

treatment of $TGF-\beta$ -related diseases Matsunaga, Kenichi; Hoshi, Hirotaka

INVENTOR(S): Kureha Chemical Industry Co., Ltd., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 18 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. DATE ---------_____ JP 2005162668 20050623 JP 2003-403374 20031202 JP 2003-403374 20031202 Α PRIORITY APPLN. INFO.:

Matsutake organic solvent exts. containing linoleic acid and oleic acid and their salts and prodrugs, including some hydrophobic polymers, are claimed as drugs and health foods for treatment of TGF-β-related diseases, including fibrosis, chronic fatigue, cancer, metastasis cancer, liver disease, heart disease, hypertension, and chronic pancreatitis.

L11 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:347047 HCAPLUS

DOCUMENT NUMBER: 142:397662

TITLE: Novel glycoprotein and medicinal composition

containing the same

Matsunaga, Kenichi; Hoshi, Hirotaka INVENTOR(S):

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: DAMENIO NO

PATE	PATENT NO.				KIND DATE				APPLICATION NO.										
WO 2	WO 2005035571						-, WO 2004-JP15057												
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	ВG,	BR,	BW,	BY,	ΒZ,	CA,	CH,		
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,		
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KZ,	LC,		
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,		
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,		
							TZ,												
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,		
							RU,												
							GR,												
		_					CF,												
		SN,	TD,	TG									-			-	•		
EP 1686136		A1		2006	0802	EP 2004-817163					20041013								
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,		
		ΙE,	SI,	FI,	RO,	CY,	TR,	BG,	CZ,	EE,	HU,	PL,	SK						
US 2007066515			A1		2007	0322	US 2006-575491				20060412								
PRIORITY	APPI	LN.	INFO	. :					į.	JP 20	003-3	3534	19	7	A 20	0031	014		
									1	NO 2	004-3	JP15	057	1	v 20	0041	013		

AΒ Disclosed is a novel glycoprotein having (a) a mol. weight of about 60 kDa; and (b) a ratio of carbohydrate content to protein content (carbohydrate:protein) of 16.4:1.0. This glycoprotein can be prepared by: (1) extracting Tricholoma matsutake with an alkali solution or hot water; (2) adsorbing the obtained extract by an anion exchange resin; (3) eluting the adsorbed fraction from the anion exchange resin with an eluent; and (4) obtaining a fraction having a mol. weight of 50 to 70 kDa by gel filtration. The above glycoprotein is useful as the active ingredient of immunopotentiators, agents for promoting recovery from loaded stress or antitumor agents. Dried Tricholoma matsutake FERM BP-7304 was extracted with 0.2 M NaOH solution followed by anion exchange chromatog. by using Toyopearl PAK 650 column, gel filtration by using Sephacryl S-100 and Sephacryl S-500 columns, and C18 reverse-phase chromatog. with Intersil EP300 to obtain a glycoprotein fraction of the present invention. The effects of the obtained fractions on NK cell activity in stressed mice and $TGF-\beta 1$ binding activity in vitro were examined

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:533643 HCAPLUS

DOCUMENT NUMBER:

141:70620

TITLE:

Tricholoma extract as an infection

preventive or therapeutic agent and food containing

i+

INVENTOR(S):

Suzuki, Tatsuo; Matsunaga, Kenichi

PATENT ASSIGNEE(S):

Japan

SOURCE:

U.S. Pat. Appl. Publ., 26 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
	-			-		
US 2004126393	A1	20040701	US 2003-695766		20031030	
JP 2004210694	Α	20040729	JP 2002-381274		20021227	
CA 2447378	A1	20040627	CA 2003-2447378		20031030	
PRIORITY APPLN. INFO.:			JP 2002-381274	Α	20021227	

AB An infection preventive or therapeutic agent and food are disclosed, which contain as an active ingredient an anion exchange resin adsorption fraction of a mixture obtained by mixing a hot water extract of mycelia of Basidiomycetes belonging to the genus Tricholoma, in particular the Tricholoma matsutake FERM BP-7304 strain, with an alkaline solution extract of the mycelia residue from the mycelia hot water extract The anion exchange resin adsorption fraction has a carbohydrate content of 60-72% in glucose equivalent, determined by a phenol-sulfuric acid method and a protein content of 28-40% in albumin equivalent, determined by a copper-Folin method. Methods of preventing or treating infection(s) with a pathogenic microorganism by the use of the preventive or therapeutic agent and food are also disclosed.

L11 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:528041 HCAPLUS

TITLE: Cancer preventive agent and food

INVENTOR(S): Matsunaga, Kenichi

PATENT ASSIGNEE(S): Japan

SOURCE: U.S. Pat. Appl. Publ.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. ______ ---------A1 20040701 US 2003-695762 20031030 A 20040729 JP 2002-381275 20021227 US 2004126392 20021227 20031030 JP 2004210695 A1 20040627 CA 2003-2447352 20031030 JP 2002-381275 A 20021227 CA 2447352 PRIORITY APPLN. INFO.:

A cancer preventive agent and food are disclosed, which contain

Tricholoma matsutake , in particular Tricholoma

matsutake of the FERM BP-7304 strain, and any of mycelia,

broths, or fruit bodies (including spores) thereof, as they are, dried products thereof, or extracts thereof (e.g., a hot water extract or an alkaline solution extract). Methods of preventing a cancer by the use of the cancer preventive agent and food are also disclosed.

L11 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

2003:962589 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 140:296999

TITLE: Activation of antitumor immunity by intratumor

injection of biological preparations

Ebina, Takusaburo AUTHOR (S):

Division of Immunology, Miyagi Cancer Center Research CORPORATE SOURCE:

Institute, Japan

SOURCE: Gan to Kagaku Ryoho (2003), 30(11), 1555-1558

CODEN: GTKRDX; ISSN: 0385-0684

Gan to Kaqaku Ryohosha PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: Japanese

The antitumor effects of biol. response modifiers (BRMs) in an exptl. mouse model using a double grafted tumor system were analyzed. Some BRMs prevented metastases by utilizing the anti-tumor immunol. cascade reactions, which activate macrophages in the body. The following BRMs were analyzed: PSK was a hot water extract of cultured mycelia from Coliolus versicolor and a protein bound $\beta\text{-glucan}.$ Lentinan was purified from fruit bodies of Lentinus edodes and is a β -glucan. The agaricus preparation was extracted from fruit bodies of Agaricus blazei and a protein-bound α -, β -glucan. The M2 fraction was extracted from mycelia of Tricholoma matsutake and was a protein bound α -glucan. M1 fraction was purified from mycelia of T. matsutake and was an α -glucan. PSK cured both primary and metastatic tumors in the double grafted tumor system. Lentinan did not inhibit the growth of either primary or metastatic tumors. Agaricus preparation cured a primary tumor and inhibited the growth of a metastatic tumor. The M2 fraction prepared from Matsutake inhibited the growth of both primary and metastatic tumors. The M1 fraction did not inhibit either primary or metastatic tumors. Immunosuppressive acidic protein (IAP) is produced by activated macrophages. The PSK, Agaricus preparation and M2 fraction of the Matsutake preparation induced IAP but the lentinan and M1 fraction did not.

L11 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:826559 HCAPLUS

DOCUMENT NUMBER: 140:234499

TITLE: Mass production of mushroom, Matsutake (

Tricholoma matsutake), mycelia and its

application to functional food

Matsunaga, Kenichi; Chiba, Tadahiko; AUTHOR(S):

Takahashi, Eisaku

CORPORATE SOURCE: Bio-Medical Lab., Kureha Kagaku Kogyo K. K., Japan

SOURCE: Bio Industry (2003), 20(9), 37-45 CODEN: BIINEG; ISSN: 0910-6545

Shi Emu Shi Shuppan

PUBLISHER:

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

AB A review on the research conducted by the Goha Chemical Industry, Japan, and the results applied to production of health food.

L11 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:808895 HCAPLUS

DOCUMENT NUMBER: 140:174724

TITLE: Inhibition of Decrease in Natural Killer Cell Activity

in Repeatedly Restraint-Stressed Mice by a Biological Response Modifier Derived from Cultured Mycelia of the

Basidiomycete Tricholoma matsutake

AUTHOR(S): Ishihara, Yoko; Iijima, Hiroko; Yagi, Yoko; Hoshi,

Hirotaka; Matsunaga, Kenichi

CORPORATE SOURCE: School of Medicine, Department of Hygiene and Public

Health (I), Tokyo Woman's Medical University, Tokyo,

Japan

SOURCE: NeuroImmunoModulation (2003), Volume Date 2003-2004,

11(1), 41-48

CODEN: NROIEM; ISSN: 1021-7401

PUBLISHER: S. Karger AG

DOCUMENT TYPE: Journal LANGUAGE: English

Objective: To develop a method to cope with stress-induced reduction in immunocompetence, we evaluated the immunomodulatory activities of a biol. response modifier derived from the mycelia of the basidiomycete Tricholoma matsutake (CM6271) in mice under repeated restraint stress. Methods: C57BL/6 mice were inserted, one per tube, into 50-mL polypropylene tubes into which more than 30 ventilation holes had been drilled, and were restrained everyday for 20 days in this fashion for set periods of time. Natural killer (NK) cell activity and NK1.1-pos. cell counts in the spleen, ACTH and corticosterone levels in the blood were determined CM6271 was orally administered daily during the restraint stress period. Results: (1) When the mice were restrained in a confined space for 6 h per day for 20 days, the NK cell activity and the NK1.1-pos. cell counts in the spleen significantly decreased after day 5 with an increase in the blood ACTH and corticosterone levels. (2) Oral administration of CM6271 during the restraint stress period significantly prevented the stress-induced decrease in NK cell activity. The effect was dependent on the timing, duration, and doses administered. (3) CM6271 did not significantly affect the splenic NK1.1-pos. cell counts or the levels of blood ACTH and corticosterone in restraint-stressed mice. Conclusion: The above findings suggest that CM6271 inhibits the restraint stress-induced decrease of NK cell activity in a timing of administration and dose-dependent manner.

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:678679 HCAPLUS

DOCUMENT NUMBER: 139:207777

TITLE: Anion exchange resin adsorbed fraction,

immunopotentiator, and promoter for recovery from

loaded stress originating in matsutake mushroom

Ebina, Takusaburo; Matsunaga,

Kenichi

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

INVENTOR(S):

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PATENT NO.
                    KIND DATE
                                        APPLICATION NO.
                                                                DATE
                               -----
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                         ----
                         A1 20030828 WO 2003-JP1979 20030224
     WO 2003070264
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2003211434
                                 20030909
                                          AU 2003-211434
                          A1
     EP 1477179
                                 20041117
                                           EP 2003-707010
                          A1
                                                                    20030224
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                             US 2003-505468
     US 2005147619
                          A1
                                 20050707
                                                                    20030224
PRIORITY APPLN. INFO.:
                                             JP 2002-47021
                                                                 A 20020222
                                             JP 2002-106632
                                                                A 20020409
                                                                W 20030224
                                             WO 2003-JP1979
     It is intended to disclose a novel anion exchange resin adsorbed fraction
AB
     of a liquid mixture obtained by mixing a hot water-extract of mycelium of
     matsutake mushroom FERM BP-7304 strain with an alkali solution-extract
     of the residue of the mycelium remaining in the course of acquiring the
     hot water-extract Also disclosed are an immunopotentiator and a promoter for
     the recovery from loaded stress each containing as an active ingredient the
     novel anion exchange resin adsorbed fraction originating in matsutake
     mushroom.
REFERENCE COUNT:
                                THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                         2003:651687 HCAPLUS
DOCUMENT NUMBER:
                         141:118499
TITLE:
                         A 28-day repeated dietary dose toxicity study of
                         preparation derived from cultured mycelia of
                         Tricholoma matsutake BP-7304 strain (Kureha
                         M6271). [Erratum to document cited in CA139:113000]
AUTHOR(S):
                         Omori, Masashi; Baba, Sumiaki; Yamashita, Rie; Nakama,
                         Kazuhiro; Kamimura, Yukihiro; Sameshima, Hidenobu;
                         Tanaka, Hiromitsu; Iwata, Mitsuo; Matsunaga,
                         Kenichi
CORPORATE SOURCE:
                         Drug Safety Res. Lab., Shin Nippon Biomedical Lab.,
                         Ltd., Kagoshima, 891-1394, Japan
SOURCE:
                         Oyo Yakuri (2003), 65(1/2), 47
                         CODEN: OYYAA2; ISSN: 0300-8533
PUBLISHER:
                         Oyo Yakuri Kenkyukai
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     On page 85, right column, line 1, "Tansuikabutsu" (i.e., carbohydrate)
     should be changed to "Toushitsu" (i.e., digestible carbohydrate).
L11 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                         2003:651686 HCAPLUS
DOCUMENT NUMBER:
                         141:118498
TITLE:
                         A bacterial reverse mutation test of a preparation
                         derived from cultured mycelia of Tricholoma
                         matsutake BP-7304 strain (Kureha M6271). [Erratum to
                         document cited in CA140:072404]
AUTHOR (S):
                         Torigoe, Naohiko; Ukezono, Taeko; Saigo, Kazuhiko;
                         Omori, Masashi; Sameshima, Hidenobu; Tanaka,
```

Hiromitsu; Iwata, Mitsuo; Matsunaga, Kenichi

Drug Safety Res. Lab., Shin Nippon Biomedical lab., CORPORATE SOURCE:

Ltd., Kagoshima, 891-1394, Japan

Oyo Yakuri (2003), 65(1/2), 47 SOURCE:

CODEN: OYYAA2; ISSN: 0300-8533

Oyo Yakuri Kenkyukai PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

On page 89, left column, line 3, "Tansuikatutsu" (i.e., carbohydrate) AΒ

should be changed to "Toushitsu" (i.e., digestible carbohydrate).

L11 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:651685 HCAPLUS

DOCUMENT NUMBER: 141:48841

An acute single oral dose toxicity study of a TITLE:

> preparation derived from cultured mycelia of Tricholoma matsutake BP-7304 strain (Kureha M6271) in rats. [Erratum to document cited in

CA139:112999]

AUTHOR(S): Yamatoya, Hideyuki; Kawazoe, Megumi; Baba, Sumiaki;

Yamashita, Rie; Kamimura, Yukihiro; Omori, Masashi; Sameshima, Hidenobu; Tanaka, Hiromitsu; Iwata, Mitsuo;

Matsunaga, Kenichi

Drug Safety Res. Lab., Shin Nippon Biomedical Lab., CORPORATE SOURCE:

Ltd., Kagoshima, 891-1394, Japan Oyo Yakuri (2003), 65(1/2), 47

CODEN: OYYAA2; ISSN: 0300-8533

Oyo Yakuri Kenkyukai PUBLISHER:

DOCUMENT TYPE: Journal

SOURCE:

SOURCE:

English LANGUAGE:

On page 85, "carbohydrate" should read "sugar".

L11 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:539868 HCAPLUS

DOCUMENT NUMBER: 139:113000

A 28-day repeated dietary dose toxicity study of TITLE:

preparation derived from cultured mycelia of Tricholoma matsutake BP-7304 strain (Kureha

M6271)

Omori, Masashi; Baba, Sumiaki; Yamashita, Rie; Nakama, AUTHOR (S):

Kazuhiro; Kamimura, Yukihiro; Sameshima, Hidenobu;

Tanaka, Hiromitsu; Iwata, Mitsuo; Matsunaga,

Kenichi

Drug Safety Res. Lab., Shin Nippon Biomedical Lab., CORPORATE SOURCE:

Ltd., Kagoshima, 891-1394, Japan Oyo Yakuri (2003), 64(5/6), 95-108

CODEN: OYYAA2; ISSN: 0300-8533

Oyo Yakuri Kenkyukai PUBLISHER:

Journal DOCUMENT TYPE: Japanese LANGUAGE:

A preparation derived from cultured mycelia of Tricholoma matsutake BP-7304 Strain (Kureha M6271, hereinafter referred to as CM6271) was dietarily administered at 0 (control), 0.2, 1 and 5 weight/% once daily, 7 times weekly, for 28 days up to 6 male and 6 female Crj:CD(SD)IGS rats to investigate its toxicity. Addnl., a 14-wk recovery period was set to evaluate the reversibility of toxicity. The control group received powdered food (CE-2), vehicle, in the same manner as the test article. The dose levels for the 0.2 weight/* group were 206.2 mg/kg for males and 191.7 mg/kg for females. The dose levels for the 1 weight/% group were 10122 mg/kg for males and 1035.2 mg/kg for females. The dose levels for the 5 weight/% group were 5249.4 mg/kg for males and 5252.5 mg/kg for females. No animals died in any group during the dosing or recovery period. No test

article-related changes were noted in clin. signs, behavioral pharmacol.,

Roy P. Issac Page 11 food consumption, body weight, ophthalmol., urinalysis, hematol., blood chemical, gross pathol., organ wts. or histopathol. It was concluded from these results that under the conditions of this study, the no-observed-adverse-effect level of CM6271 was 5 weight/% and above, and the dose level was 5,000 mg/kg and above in both males and females.

L11 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:539857 HCAPLUS

DOCUMENT NUMBER: 140:72404

A bacterial reverse mutation test of a preparation TITLE:

derived from cultured mycelia of Tricholoma

matsutake BP-7304 strain (Kureha M6271)

Torigoe, Naohiko; Ukezono, Taeko; Saigo, Kazuhiko; AUTHOR (S):

> Omori, Masashi; Sameshima, Hidenobu; Tanaka, Hiromitsu; Iwata, Mitsuo; Matsunaga, Kenichi

Drug Safety Res. Lab., Shin Nippon Biomedical Lab., CORPORATE SOURCE:

Ltd., Kagoshima, 891-1394, Japan Oyo Yakuri (2003), 64(5/6), 89-94 CODEN: OYYAA2; ISSN: 0300-8533

Oyo Yakuri Kenkyukai PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: Japanese

SOURCE:

AB In order to evaluate whether a preparation derived from cultured mycelia of Tricholoma matsutake BP-7304 Strain (Kureha M6271, hereinafter referred to as CM6271) induces gene mutation, a bacterial reverse mutation test was performed with 5 strains of Salmonella typhimurium (TA98, TA100, TA1535, TA1537) and Escherichia coli (WP2uvrA), using the pre-incubation method. For the dose finding test, 7 dose levels were set at 5 to 5000 mg/plate, for both the tests with and without metabolic activation. For the main test, 6 dose levels were set at 156 to 5000 mg/plate, for both the tests with and without metabolic activation. The results show that compared with the neg. control, CM6271 did not cause a two-fold or greater increase in the number of revertant colonies in any of the 5 test strains in either the dose finding or main tests, with or without metabolic activation. Growth inhibition was not observed at up to 5000 mg/plate. article precipitation was observed at 15 mg/plate or greater. It was concluded from these results that under the conditions of this study, CM6271 did not induce gene mutation, with or without metabolic activation.

L11 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:539853 HCAPLUS

DOCUMENT NUMBER: 139:112999

TITLE: An acute single oral dose toxicity study of a

preparation derived from cultured mycelia of Tricholoma matsutake BP-7304 strain (Kureha

M6271) in rats

AUTHOR (S): Yamatoya, Hideyuki; Kawazoe, Megumi; Baba, Sumiaki;

Yamashita, Rie; Kamimura, Yukihiro; Omori, Masashi; Sameshima, Hidenobu; Tanaka, Hiromitsu; Iwata, Mitsuo;

Matsunaga, Kenichi

CORPORATE SOURCE: Drug Safety Res. Lab., Shin Nippon Biomedical Lab.,

Ltd., Kagoshima, 891-1394, Japan Oyo Yakuri (2003), 64(5/6), 85-88 CODEN: OYYAA2; ISSN: 0300-8533

PUBLISHER: Oyo Yakuri Kenkyukai

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

A preparation derived from cultured mycelia of Tricholoma matsutake BP-7304 strain (Kureha M6271, hereinafter referred to as CM6271) was administered orally once to CD(SD)IGS rats in order to investigate toxicity. No animals died after the 2-wk observation period. No abnormalities were observed in clin. signs. No test article-related

abnormalities were observed in body weight or gross pathol. It was concluded

SOURCE:

from these results that under the conditions of this study, the approx. LD level of CM6271 was higher than 2000 mg/kg in both females and males when administered once orally to rats.

L11 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:501170 HCAPLUS

DOCUMENT NUMBER: 138:100453

TITLE: Antitumor effect of a peptide-glucan preparation

extracted from a mycelium of Tricholoma

matsutake (S. Ito and Imai) Sing

AUTHOR(S): Ebina, Takusaburo; Kubota, Tomoka; Ogama,

Naoko; Matsunaga, Ken-ichi

CORPORATE SOURCE: Division of Immunology, Miyagi Cancer Center Research

Institute, Natori, Miyagi, 981-1293, Japan

SOURCE: Biotherapy (Tokyo, Japan) (2002), 16(3), 255-259

CODEN: BITPE9; ISSN: 0914-2223

PUBLISHER: Gan to Kagaku Ryohosha

DOCUMENT TYPE: Journal LANGUAGE: Japanese

AΒ The antitumor effect of exts. obtained from the mycelium of Tricholoma matsutake (S. Ito and Imai) Sing, was examined in a double grafted tumor system, in which BALB/c mice received simultaneous intradermal injections of Meth-A tumor cells in both the right (2 x 106 cells) and left (4 x 105 cells) flanks, and were then injected with 5 mg of exts. of T. matsutake in the right tumor on days 3, 4 and 5. M2 fraction (a peptide-glucan preparation) of extract inhibited the growth of both the right tumor and the left, non-treated tumor. M1 fraction (a glucan preparation) of extract inhibited neither the right nor the left tumor. Immunosuppressive acidic protein (IAP) is produced by activated macrophages. IAP in serum of M2 fraction-treated mice was increased transiently soon after intradermal injection of 5 mg of extract However, IAP induction was not observed in the serum of mice treated with M1 fraction. This suggests that macrophages may recognize a peptide-glucan preparation but not a glucan preparation The protein content of M2 fraction was 38% and NMR anal. showed that the glycoside portion of M2 fraction was mainly α -glucan (71%).

L11 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:288338 HCAPLUS

TITLE: Medicinal compositions for promoting recovery from

stress loading and novel matsutake mushroom strain

INVENTOR(S):
Matsunaga, Kenichi

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: PCT Int. Appl.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION 1	NO.		D	ATE	
						-									-		
WO	2002	0304	40		A1		2002	0418	1	WO 2	001-	JP88	76		2	0011	010
	W:	ΑE,	AG,	АL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	ŪĠ,
		US,	UΖ,	VN,	ΥU,	ZA,	ZW										
	RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŬĠ,	ZW,	ΑT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	
ΑU	2001	0942	10		A5		2002	0422		AU 2	001-	9421	0		20	0011	010

CA 2425361 A1 20030410 CA 2001-2425361 20011010 EP 1331009 A1 20030730 EP 2001-974752 20011010 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR US 2003180901 A1 20030925 US 2003-399061 20030410 PRIORITY APPLN. INFO::

JP 2000-311034 A 20001011 JP 2000-311035 A 20001011 WO 2001-JP8876 W 20011010 AB Medicinal compositions for promoting recovery from stress loading which

AB Medicinal compositions for promoting recovery from stress loading which contain matsutake mushroom, optionally dried hot water-extract of matsutake mushroom, or optionally dried alkali solution-extract of matsutake mushroom together with pharmaceutically acceptable carriers; and a novel matsutake mushroom strain FERM BP-7304.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1973:503657 HCAPLUS

DOCUMENT NUMBER: 79:103657

TITLE: Production of neutral protease by Basidiomycetes

INVENTOR(S): Ueno, Saburo; Yoshikumi, Chikao; Matsunaga,

Kenichi; Omura, Yoshio; Wada, Toshihiko

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 48048682	Α	19730710	JP 1971-76240		19711001
PRIORITY APPLN. INFO.:			JP 1971-76240	Α	19711001

AB Neutral proteases were produced by mushrooms (Tricholoma, Corticium, Clitocybe, etc.) cultured in liquid and solid media. A strain of Corticium was cultured in a medium containing peptone 0.5%, yeast extract 0.3%, KH2PO4 0.03%, K2HPO4 0.03%, MgSO4.7H2O 0.03%, glucose 3%, and other minerals at 25° for 20 days. Crude enzyme was obtained from the filtrate by (NH4)2SO4 precipitation at 0.8 saturation. The proteases were stimulated by Mn2+ and L-ascorbic acid and inhibited by Hg2+. Optimum pH and temps. were 5-8 and 40-60°. The enzymes were inactivated at 65°.

Roy P. Issac

ACCESSION NUMBER:

TITLE:

ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

2001:507549 HCAPLUS

Novel immune enhancing compositions

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Matsunaga, Kenichi
INVENTOR(S):
                         Kureha Chemical Industry Co., Ltd., Japan
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 41 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                    KIND DATE APPLICATION NO.
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                                -----
                                           -----
                                20010712 WO 2000-JP9383
     WO 2001049308
                         A1
                                                                  20001228
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                         CA 2000-2396239
AU 2001-24046
EP 2000-987787
                                20010712
     CA 2396239
                          A1
     AU 200124046
                          Α
                                20010716
                                                                   20001228
     EP 1256351
                          A1
                                20021113
                                                                   20001228 <--
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                         A1 20030306
     US 2003044424
                                            US 2002-169779
                                                                   20020703
PRIORITY APPLN. INFO.:
                                            JP 2000-374
                                                               A 20000105
                                            WO 2000-JP9383
                                                               W 20001228
AB
     Novel immune enhancing compns. or functional foods, novel killer
     activity-inducing compns. or functional foods, novel tumor proliferation
     inhibitory compns. or functional foods, novel interleukin 12-inducing
     compns. or functional foods, novel TGF-\beta activity inhibitory compns.
     or functional foods and novel active oxygen-capturing compns. or
     functional foods each containing as the active ingredient hot water extract of
     Tricholoma matsutake or alkali-solution extract of Tricholoma matsutake, or a
     fraction of hot water extract of Tricholoma matsutakeor alkali-solution extract of
     Tricholoma matsutakeadsorbed by an anion exchange resin; and a novel
     fraction of Tricholoma matsutake or alkali-solution extract of Tricholoma
     matsutake adsorbed by an anion exchange resin.
AN
     2001:507549 HCAPLUS
FAN.CNT 1
     PATENT NO.
                      KIND DATE APPLICATION NO. DATE
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                                           -----
     WO 2001049308
                                         WO 2000-JP9383
ΡI
                        A1 20010712
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             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
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             YU, ZA, ZW
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             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                            JP 2000-374
                                                              A 20000105
     CA 2396239
                          A1
                                20010712
                                            WO 2000-JP9383 W 20001228
AU 2001-24046 20001228
                                            CA 2000-2396239
    AU 200124046
                          Α
                                20010716
                                           AU 2001-24046
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 JP 2000-374
 A 20000105

 WO 2000-JP9383
 W 20001228

 EP 2000-987787
 20001228 <---</td>

 A1 20021113 EP 1256351 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR JP 2000-374 JP 2000-374 A 20001228 WO 2000-JP9383 W 20020703 **A1** 20030306 US 2003044424 A 20000105 JP 2000-374 W 20001228 WO 2000-JP9383 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ACCESSION NUMBER:

ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

2002:288338 HCAPLUS

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Medicinal compositions for promoting recovery from
                         stress loading and novel matsutake mushroom strain
                         Matsunaga, Kenichi
INVENTOR(S):
                         Kureha Chemical Industry Co., Ltd., Japan
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                    KIND DATE APPLICATION NO.
     PATENT NO.
                                                               DATE
     _____
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                                           ------
                                                                 -----
     WO 2002030440
                                                           20011010
                                20020418 WO 2001-JP8876
                         A1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
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ΑB
     Medicinal compositions for promoting recovery from stress loading which
     contain matsutake mushroom, optionally dried hot water-extract of
     matsutake mushroom, or optionally dried alkali solution-extract of
     matsutake mushroom together with pharmaceutically acceptable carriers; and
     a novel matsutake mushroom strain FERM BP-7304.
AN
     2002:288338 HCAPLUS
FAN.CNT 1
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REFERENCE COUNT:
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                                  THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
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ACCESSION NUMBER:

PATENT ASSIGNEE(S):

L1

TITLE:

INVENTOR(S):

ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

2001:507549 HCAPLUS

Matsunaga, Kenichi

Novel immune enhancing compositions

Kureha Chemical Industry Co., Ltd., Japan

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PCT Int. Appl., 41 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PRIORITY APPLN. INFO.:
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     Novel immune enhancing compns. or functional foods, novel killer
     activity-inducing compns. or functional foods, novel tumor proliferation
     inhibitory compns. or functional foods, novel interleukin 12-inducing
     compns. or functional foods, novel TGF-\beta activity inhibitory compns.
     or functional foods and novel active oxygen-capturing compns. or
     functional foods each containing as the active ingredient hot water extract of
     Tricholoma matsutake or alkali-solution extract of Tricholoma matsutake, or a
     fraction of hot water extract of Tricholoma matsutakeor alkali-solution extract of
     Tricholoma matsutakeadsorbed by an anion exchange resin; and a novel
     fraction of Tricholoma matsutake or alkali-solution extract of Tricholoma
     matsutake adsorbed by an anion exchange resin.
    FALENT NO. KIND DATE APPLICATION NO. DATE
WO 2001049308 A1 20010310
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REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
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Roy P. Issac